

Static & Dynamic Balancing Demonstrator



Product Categories: [Engineering Equipment](#), [Mass Transfer Lab](#)

Product Page:

<https://www.labappara.com/product/static-dynamic-balancing-demonstrator/>

Product Description

Static & Dynamic Balancing Demonstrator

Technical Description:

This equipment is designed for carrying out the experiment for balancing a rotation mass system. The apparatus consists of a stainless steel shaft fixed in a rectangular frame. A set of four blocks with a clamping arrangement is provided. For static balancing, each block is individually clamped on shaft.

For dynamic balancing, a moment polygon is drawn using relative weights and angular and axial position of blocks is determined. The block are clamped on shaft is rotated by a motor to check dynamic balance of the system. The system is provided with angular scale and is suspended with chains for dynamic balancing.

Learning Objectives/Experiments:

To balance the masses statically and dynamically of a single rotating mass system.
To observation of effect of unbalance in a rotating mass system

Required for Operation:

Electricity Supply: 220 V AC, Single Phase, 0.5 kW.

Floor Space : 0.5 x 0.5 m

Digital Tachometer

Technical Specifications:

Drive Motor: FHP Motor, variable speed, with speed controller.

Balancing weight: 4 Nos. of Stainless Steel with different sized eccentric mass for varying unbalance.

Rotating Shaft: Material Stainless Steel

The whole set-up is ingeniously designed and schematically arranged on a powder-coated rigid structure